RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/578,580
Source: IFWP
Date Processed by STIC: 5-22-06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/578,580 **CRF Edit Date:** 5-22-06
Edited by: KL

___ **Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line**

___ **Corrected the SEQ ID NO. Sequence numbers edited were:**

_____

___ **Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:**

_____

__✓__ **Deleted:** __✓__ **invalid beginning/end-of-file text ; ___ page numbers**

___ **Inserted mandatory headings/numeric identifiers, specifically:**

_____

___ **Moved responses to same line as heading/numeric identifier, specifically:**

_____

___ **Other:**

_____
_____
_____

Revised 09/09/2003

IFWP

RAW SEQUENCE LISTING DATE: 05/22/2006
PATENT APPLICATION: **US/10/578,580** TIME: 09:47:22

Input Set : **A:\PTO.KD.txt**
Output Set: **N:\CRF4\05222006\J578580.raw**

<110> APPLICANT: AMGEN INC.
Aldrich, Teri
Shen, Wenyan
Jacobsen, Frederick W.
Morris, Arvia E.
Allen, Martin J.
<120> TITLE OF INVENTION: Monkey Immunoglobulin Sequences
<130> FILE REFERENCE: A-951 (WO)
C--> **<140> CURRENT APPLICATION NUMBER: US/10/578,580**
C--> **<141> CURRENT FILING DATE: 2006-05-05**
<150> PRIOR APPLICATION NUMBER: US 60/517,970
<151> PRIOR FILING DATE: 2003-11-07
<160> NUMBER OF SEQ ID NOS: 86
<170> SOFTWARE: PatentIn version 3.2
<210> SEQ ID NO: 1
<211> LENGTH: 999
<212> TYPE: DNA
<213> ORGANISM: Macaca fascicularis
<400> SEQUENCE: 1

gcctccacca agggcccatc ggtcttcccc ctggcgccct cctccaggag cacctccgag 60
agcacagcgg ccctgggctg cctggtcaag gactacttcc ctgaacccgt gaccgtgtcg 120
tggaactcag gctccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180
gggctctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc 240
tacgtctgca acgtaaacca caagcccagc aacaccaagg tggacaagag agttgagata 300
aaaacatgtg gtggtggcag caaacctccc acgtgcccac cgtgcccagc acctgaactc 360
ctggggggac cgtcagtctt cctcttcccc ccaaaaccca aggacaccct catgatctcc 420
cggacccctg aggtcacgtg cgtggtggta gacgtgagcc aggaagaccc cgatgtcaag 480
ttcaactggt acgtaaatgg cgcggaggtg catcatgccc agacgaagcc acgggagacg 540
cagtacaaca gcacatatcg tgtggtcagc gtcctcaccg tcacgcacca ggactggctg 600
aacggcaagg agtacacgtg caaggtctcc aacaaagccc tcccggcccc catccagaaa 660
accatctcca aagacaaagg gcagccccga gagcctcagg tgtacaccct gccccctcc 720
cgggaggagc tgaccaagaa ccaggtcagc ctgacctgcc tggtcaaagg cttctacccc 780
agcgacatcg tcgtggagtg ggagagcagc gggcagccgg agaacaccta caagaccacc 840
ccgcccgtgc tggactccga cggctcctac ttcctctaca gcaagctcac cgtggacaag 900
agcaggtggc agcaggggaa cgtcttctca tgctccgtga tgcatgaggc tctgcacaac 960
cactacaccc agaagagcct ctccctgtct ccgggtaaa 999

<210> SEQ ID NO: 2
<211> LENGTH: 333
<212> TYPE: PRT
<213> ORGANISM: Macaca fascicularis
<400> SEQUENCE: 2

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Arg
1 5 10 15

RAW SEQUENCE LISTING DATE: 05/22/2006
PATENT APPLICATION: US/10/578,580 TIME: 09:47:22

Input Set : A:\PTO.KD.txt
Output Set: N:\CRF4\05222006\J578580.raw

```
76 Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
77             20                  25                  30
80 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ser Leu Thr Ser
81         35                  40                  45
84 Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
85     50                  55                  60
88 Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
89 65                  70                  75                  80
92 Tyr Val Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
93                 85                  90                  95
96 Arg Val Glu Ile Lys Thr Cys Gly Gly Gly Ser Lys Pro Pro Thr Cys
97             100                 105                 110
100 Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu
101         115                 120                 125
104 Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu
105     130                 135                 140
108 Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Asp Val Lys
109 145                 150                 155                 160
112 Phe Asn Trp Tyr Val Asn Gly Ala Glu Val His His Ala Gln Thr Lys
113                 165                 170                 175
116 Pro Arg Glu Thr Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu
117             180                 185                 190
120 Thr Val Thr His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Thr Cys Lys
121         195                 200                 205
124 Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Gln Lys Thr Ile Ser Lys
125     210                 215                 220
128 Asp Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser
129 225                 230                 235                 240
132 Arg Glu Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
133                 245                 250                 255
136 Gly Phe Tyr Pro Ser Asp Ile Val Val Glu Trp Glu Ser Ser Gly Gln
137             260                 265                 270
140 Pro Glu Asn Thr Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly
141         275                 280                 285
144 Ser Tyr Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln
145     290                 295                 300
148 Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
149 305                 310                 315                 320
152 His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
153                 325                 330
156 <210> SEQ ID NO: 3
157 <211> LENGTH: 1581
158 <212> TYPE: DNA
159 <213> ORGANISM: Macaca fascicularis
161 <400> SEQUENCE: 3
162 gcctccacca agggcccatc ggtcttcccc ctggcgtcct gctccaggag cacctcccag     60
164 agcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaacccgt gaccgtgtcg    120
166 tggaactcag gcgccctgac cagcggcgtg cacaccttcc aggctgtcct acagtcctca    180
168 gggctctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cactcagacc    240
```

RAW SEQUENCE LISTING DATE: 05/22/2006
PATENT APPLICATION: US/10/578,580 TIME: 09:47:22

Input Set : A:\PTO.KD.txt
Output Set: N:\CRF4\05222006\J578580.raw

```
170 tacgtctgca acgtcgttca tgagcccagc aacaccaagg tggacaagac agttggtgag    300
172 aggccagcga gggaaggggg gtgtctgctg gaagccaggc tcggccctcc tgcctggaca    360
174 aactctggct gtgcagcccc agcccagggc agcagggcag gccccgtctg tcttctcacc    420
176 cagaggcctc tgcccacccc actcatgctc agggagccag tcttctggct ttttccacca    480
178 ggctctgagc aggcacaggc tggatgcccc taccccaggc cctgcacaca caggggcagg    540
180 tgctgggctc agacctgcca agagccatat ctgggaggac cctgccctga cctaagccca    600
182 ccccaaaggc caaactccac tccctcagct cagacacctt ctctcctccc acatcccagt    660
184 aactcccaat cttctctctg cagggctccc atgtcgttcc acgtgcccac cgtgcccagg    720
186 taagccagcc caggcctcac cctccagctc aaggtgggac aagcgcccta gagtggcctg    780
188 tgtccaggga caggccctgc ccgggtgctg acacgtccac ctccatctct tcctcagctg    840
190 aactcctggg gggaccgtca gtcttcctct tccccccaaa acccaaggac accctcatga    900
192 tttcccggac ccctgaggtc acgtgcgtgg tggtagacgt gagccaggaa gaacccgatg    960
194 tcaagttcaa ctggtacgtg gacggcgtgg aggtgcacaa tgcccagacg aagccacggg   1020
196 aggagcagtt caacagcacg taccgcgtgg tcagcgtcct caccgtcaca caccaggact   1080
198 ggctgaacgg caaggagtac acgtgcaagg tctccaacaa agccctcccg gccccaaagc   1140
200 agaaaactgt ctccaaaacc aaaggtggga cccgcggggc acgagggcca cgtggacaga   1200
202 ggccggctca gcccaccctc tgccctggga gtgaccgctg tgccaacctc tgtccctaca   1260
204 gggcagcccc gagagccaca ggtgtacacc ctgccccccgc cccgggagga gctgaccaag   1320
206 aaccaggtca gcctgacctg cctggtcaaa ggcttctacc ccagcgacat cgtcgtggag   1380
208 tgggcgagca acgggcagcc ggagaacacc tacaagacca ccccgcccgt gctggactcc   1440
210 gacggctcct acttcctcta cagcaagctc accgtggaca agagcaggtg gcagcagggg   1500
212 aacaccttct catgctccgt gatgcatgag gctctgcaca accactacac ccagaagagc   1560
214 ctctccgtgt ctccgggtaa a                                           1581
217 <210> SEQ ID NO: 4
218 <211> LENGTH: 326
219 <212> TYPE: PRT
220 <213> ORGANISM: Macaca fascicularis
222 <400> SEQUENCE: 4
224 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Ser Cys Ser Arg
225 1               5                   10                  15
228 Ser Thr Ser Gln Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
229             20                  25                  30
232 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
233         35                  40                  45
236 Gly Val His Thr Phe Gln Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
237     50                  55                  60
240 Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
241 65                  70                  75                  80
245 Tyr Val Cys Asn Val Val His Glu Pro Ser Asn Thr Lys Val Asp Lys
246                 85                  90                  95
249 Thr Val Gly Leu Pro Cys Arg Ser Thr Cys Pro Pro Cys Pro Ala Glu
250             100                 105                 110
253 Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp
254         115                 120                 125
257 Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp
258     130                 135                 140
261 Val Ser Gln Glu Glu Pro Asp Val Lys Phe Asn Trp Tyr Val Asp Gly
262 145                 150                 155                 160
265 Val Glu Val His Asn Ala Gln Thr Lys Pro Arg Glu Glu Gln Phe Asn
```

```
266                 165                 170                 175
269 Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Thr His Gln Asp Trp
270             180                 185                 190
273 Leu Asn Gly Lys Glu Tyr Thr Cys Lys Val Ser Asn Lys Ala Leu Pro
274         195                 200                 205
277 Ala Pro Lys Gln Lys Thr Val Ser Lys Thr Lys Gly Gln Pro Arg Glu
278     210                 215                 220
281 Pro Gln Val Tyr Thr Leu Pro Pro Pro Arg Glu Glu Leu Thr Lys Asn
282 225                 230                 235                 240
285 Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile
286                 245                 250                 255
289 Val Val Glu Trp Ala Ser Asn Gly Gln Pro Glu Asn Thr Tyr Lys Thr
290             260                 265                 270
293 Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Tyr Phe Leu Tyr Ser Lys
294         275                 280                 285
297 Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Thr Phe Ser Cys
298     290                 295                 300
301 Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu
302 305                 310                 315                 320
306 Ser Val Ser Pro Gly Lys
307                 325
310 <210> SEQ ID NO: 5
311 <211> LENGTH: 1579
312 <212> TYPE: DNA
313 <213> ORGANISM: Macaca fascicularis
315 <400> SEQUENCE: 5
316 gcctccacca agggcccatc ggtcttcccc ctggcgtcct cctccaggag cacctccgag     60
318 agcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaacccgt gactgtgtcg    120
320 tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca    180
322 gggctctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc    240
324 tacgtctgca acgtcgttca tgagcccagc aacaccaagg tggacaagag agttggtgag    300
326 aggccagcga gggaggggga gtgtctgctg gaagccatgc tcggccctcc tgcctggaca    360
328 aaccctggct gtgcagcccc agcccagggc agcagggcag gcccggtctg tctcctcacc    420
330 cagaggcctc tgcccacccc actcatgctc agggagacag tcttctggct ttttccacca    480
332 gactccgagc aggcacaggc tggatgcccc taccccaggc tctgcacaca taggggctgg    540
334 tgctgggctc agacctgcca agagccatat ctgggaggac cctgctcctg acctaagccc    600
336 accccaaagg ccaaactcca ctccctcagc tcggaaacct tctctcctac agatcccag     660
338 taactcccaa tcttctctct gcagagttca cacccccatg cccaccatgc ccaggtaagc    720
340 cagcccaggc ctcgccctcc agctcaaggt gggacaagtg ccctagagtg gcctgtgtcc    780
342 agggacaggc cccgcctggg tgctgacatg cccacctcca tctcttcctc agcacctgaa    840
344 ctcctggggg gaccgtcagt cttcctcttc cccccaaaac ccaaggacac cctcatgatc    900
346 tcccggaccc ctgaggtcac atgcgtggtg gtggacgtga gccaggaaga ccccgaggtc    960
348 cagttcaact ggtacgtgga cggcgtggag gtgcatcatg cccagacgaa gccacgggag   1020
350 aggcagttca acagcacgta ccgcgtggtc agcgtcctca ccgtcacaca ccaggactgg   1080
352 ctgaacggca aggagtacac gtgcaaggtc tccaacaaag gcctcccggc ccccatcgag   1140
354 aaaaccatct ccaaagccaa aggtgggacc cgcggggccc gagggccacg tggacagagg   1200
356 ccggctcagc ccaccctctg ccctgggagt gaccgctgtg ccaacctctg tccctacagg   1260
358 gcagccccga gagccgcagg tgtacatcct gcccccgccc caggaggagc tgaccaagaa   1320
360 ccaggtcagc ctgacctgcc tggtcacagg cttctacccc agcgacatcg ccgtggagtg   1380
```

RAW SEQUENCE LISTING DATE: 05/22/2006
PATENT APPLICATION: US/10/578,580 TIME: 09:47:23

Input Set : A:\PTO.KD.txt
Output Set: N:\CRF4\05222006\J578580.raw

```
362 ggagagcaac gggcagccgg agaacaccta caagaccacc ccgcccgtgc tggactccga   1440
364 cggctcctac ttcctctaca gcaagctcat cgtggacaag agcaggtggc agcaggggaa   1500
366 caccttctca tgctccgtga tgcatgaggc tctgcacaac cactacaccc agaagagcct   1560
368 ctccctgtct ccgggtaaa                                               1579
371 <210> SEQ ID NO: 6
372 <211> LENGTH: 325
373 <212> TYPE: PRT
374 <213> ORGANISM: Macaca fascicularis
376 <400> SEQUENCE: 6
378 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Ser Ser Ser Arg
379 1               5                  10                  15
382 Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
383             20                  25                  30
386 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
387         35                  40                  45
390 Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
391     50                  55                  60
394 Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
395 65                  70                  75                  80
398 Tyr Val Cys Asn Val Val His Glu Pro Ser Asn Thr Lys Val Asp Lys
399                 85                  90                  95
402 Arg Val Glu Phe Thr Pro Pro Cys Pro Pro Cys Pro Ala Pro Glu Leu
403             100                 105                 110
406 Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
407         115                 120                 125
410 Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
411     130                 135                 140
414 Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val
415 145                 150                 155                 160
418 Glu Val His His Ala Gln Thr Lys Pro Arg Glu Arg Gln Phe Asn Ser
419                 165                 170                 175
422 Thr Tyr Arg Val Val Ser Val Leu Thr Val Thr His Gln Asp Trp Leu
423             180                 185                 190
426 Asn Gly Lys Glu Tyr Thr Cys Lys Val Ser Asn Lys Gly Leu Pro Ala
427         195                 200                 205
430 Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
431     210                 215                 220
434 Gln Val Tyr Ile Leu Pro Pro Pro Gln Glu Glu Leu Thr Lys Asn Gln
435 225                 230                 235                 240
438 Val Ser Leu Thr Cys Leu Val Thr Gly Phe Tyr Pro Ser Asp Ile Ala
439                 245                 250                 255
442 Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Thr Tyr Lys Thr Thr
443             260                 265                 270
446 Pro Pro Val Leu Asp Ser Asp Gly Ser Tyr Phe Leu Tyr Ser Lys Leu
447         275                 280                 285
450 Ile Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Thr Phe Ser Cys Ser
451     290                 295                 300
454 Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
455 305                 310                 315                 320
```

VERIFICATION SUMMARY DATE: 05/22/2006
PATENT APPLICATION: **US/10/578,580** TIME: 09:47:24

Input Set : **A:\PTO.KD.txt**
Output Set: **N:\CRF4\05222006\J578580.raw**

L:14 M:270 C: Current Application Number differs, Replaced Current Application Number
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date

Raw Sequence Listing before editing (for reference only)

IFWP

RAW SEQUENCE LISTING DATE: 05/17/2006
PATENT APPLICATION: **US/10/578,580** TIME: 10:15:14

Input Set : **A:\A-951 (WO) SeqListing final 10.19.04.txt**
Output Set: **N:\CRF4\05172006\J578580.raw**

```
      3 <110> APPLICANT: AMGEN INC.
      4       Aldrich, Teri
      5       Shen, Wenyan
      6       Jacobsen, Frederick W.
      7       Morris, Arvia E.
      8       Allen, Martin J.
     10 <120> TITLE OF INVENTION: Monkey Immunoglobulin Sequences
     12 <130> FILE REFERENCE: A-951 (WO)
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/578,580
C--> 15 <141> CURRENT FILING DATE: 2006-05-05
     17 <150> PRIOR APPLICATION NUMBER: US 60/517,970
     18 <151> PRIOR FILING DATE: 2003-11-07
     20 <160> NUMBER OF SEQ ID NOS: 86
     22 <170> SOFTWARE: PatentIn version 3.2
```

Does Not Comply
Corrected Diskette Needed
(pg. 1)

ERRORED SEQUENCES

```
   3483 <210> SEQ ID NO: 86
   3484 <211> LENGTH: 109
   3485 <212> TYPE: PRT
   3486 <213> ORGANISM: Artificial Sequence
   3488 <220> FEATURE:
   3489 <223> OTHER INFORMATION: Antibody variable domain sequences that recognize anti IL-
4R
   3491 <400> SEQUENCE: 86
   3493 Asp Ile Val Leu Thr Gln Thr Pro Ala Thr Leu Ser Leu Ser Pro Gly
   3494 1               5                  10                  15
   3497 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Gly Ser Ser
   3498             20                  25                  30
   3501 Tyr Leu Ala Trp Tyr Gln Gln Arg Pro Gly Gln Ala Pro Arg Leu Leu
   3502         35                  40                  45
   3505 Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
   3506     50                  55                  60
   3509 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
   3510 65                  70                  75                  80
   3513 Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro
   3514                 85                  90                  95
   3517 Pro Trp Met Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
   3518             100                 105
E--> 3521 A-951 (WO)
E--> 3526 37
E--> 3529 Express Mail Label No. EV 531746269 US
```

deleted

VERIFICATION SUMMARY DATE: 05/17/2006
PATENT APPLICATION: **US/10/578,580** TIME: 10:15:16

Input Set : **A:\A-951 (WO) SeqListing final 10.19.04.txt**
Output Set: **N:\CRF4\05172006\J578580.raw**

L:14 M:270 C: Current Application Number differs, Replaced Current Application Number
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:3521 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:3521 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:2
L:3526 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:86
L:3529 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:3529 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:6
L:3529 M:252 E: No. of Seq. differs, <211> LENGTH:Input:109 Found:117 SEQ:86